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May 29, 1986

TO: File

FROM: James Leatherwood 

RE: Review of April 25, 1986, Submittal (MRP Amendment Plans), Barrick Mercur Gold Mine, Inc., Mercur Canyon Project, ACT/045/017, Tooele County, Utah

The April 25, 1986, response to the Division soil concerns has been reviewed. The following review comments identify specific deficiencies in the April 25, 1986, submittal and the MRP, submitted January 15, 1986.

Rule: 10 (14) - JSL

(A) The applicant has listed a soil series summary in Appendix 2 which defines SAR values for various soil series. This table is footnoted with an inaccurate SAR equation. Thus the SAR values developed from this equation are deemed inaccurate. Corrected SAR value must be resubmitted using the following:

$$SAR = [Na^+]/([Ca^{2+} + Mg^{2+}]/2)^{1/2}$$

Where all concentrations are expressed in meg/liter (Normality) not ppm as previously expressed.

(B) On page II-63 the applicant must change the definition of Topsoil to state the following:

Topsoil is defined as the original or present O, A and E horizon.

All B, C and R subsurface horizons are not defined as topsoil.

(C) In Table 2.4.1, pg II-64, #2) Topsoil Required for Reclamation of Expansion, the applicant list the total volume of the Ant Kill Dump and Security Dump equal to 190,049. According to the submitted information prior to this total in

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Table 2.4-1, the actual total equals 205,539 yd. In Table 2-4-3, Pg II-77C the applicant list the total soil volume of the Ant Hill Dump and Security Dump as 190,049 yd. Please clarify this discrepancy.

General:

The Division has determined that the amount of salvageable topsoil present is sufficient to facilitate final reclamation success. The operator shall ensure that all suitable growth materials shall be removed and protectivity stockpiled. At which time that these soil materials are removed and stockpiled, the operator shall conduct appropriate surveys detailing the volume (cyd) of excavated soil material for a given specific area, (site identification and acreage). All information shall be submitted to the Division within 30 days of topsoil stripping and prior to overburden removal. The soil stockpiles shall not be disturbed until such time that the renewal of these materials will be redistributed for final reclamation efforts and/or when apparent hazardous conditions shall potentially degrade the topsoil material.

crh
cc: Wayne Hedberg
Sue Linner
0437R-21